(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



T ERDE BENEGNER OCH IN STELLE ERDE ERHE BENEGEN BENEGEN ER STELLE ERDE BENEGEN ER BENEGEN ER BENEGEN ER BENEGE

(43) International Publication Date 31 July 2003 (31.07.2003)

PCT

(10) International Publication Number WO 03/061582 A2

(51) International Patent Classification7:

A61K

- (21) International Application Number: PCT/US03/01624
- (22) International Filing Date: 17 January 2003 (17.01.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/349,532

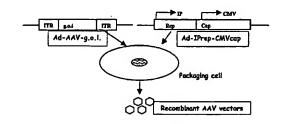
532 18 January 2002 (18.01.2002) U

- (71) Applicant (for all designated States except US): DUKE UNIVERSITY [US/US]; Office of Science and Technologic, P.O Box 90083, Durham, NC 27708 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): Ll, Chuan-Yuan [US/US]; 7 Rhygate Court, Durham, NC 27713 (US). ZHANG, Xiuwu [US/US]; 890 Louise Circle, Durham, NC 27705 (US).

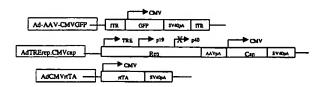
- (74) Agent: TAYLOR, Arles, A. jr.; Jenkins & Wilson, P., A., Suite 1400 University Tower, 3100 Tower Boulevard, Durham, NC 27707 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: GENERATION OF RECOMBINANT ADENO-ASSOCIATED VIRAL VECTORS BY A COMPLETE ADEN-OVIRUS-MEDIATED APPROACH



Α



B

(57) Abstract: A complete virus-mediated system for recombinant AAV production including: (a) a first recombinant adenovirus encoding one or more AAV REP78/68 polypeptides and one or more viral capsid polypeptides; (b) a second recombinant adenovirus encoding a gene of interest and including AAV inverted terminal repeats, wherein the AAV inverted terminal repeats flank the gene of interest; (c) viral helper functions; and (d) a host cell transduced with the first recombinant adenovirus, the second recombinant adenovirus, and the viral helper functions.



)3/061582 A2

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.